<u>REMARKS</u>

[0003] Applicant respectfully requests entry of the following remarks and

reconsideration of the subject application. Applicant respectfully requests entry of the

amendments herein. The remarks and amendments should be entered under 37 C.F.R.

§1.116 as they place the application in better form for appeal, or for resolution on the

merits.

[0004] Applicant respectfully requests reconsideration and allowance of all of the

claims of the application. Claims 1-9 and 11-54 are presently pending. Claims amended

herein are: 1, 2, 4, 8, 13, 18, 25, 31-36, 40, 46, 48, 50, and 51.

Statement of Substance of Interview

[0005] The Examiner graciously talked with me—the undersigned representative

for the Applicant—on May 21, 2008. Applicant greatly appreciates the Examiner's

willingness to talk. Such willingness is invaluable to both of us in our common goal of

an expedited prosecution of this patent application.

[0006] During the interview, I discussed examples of how the claims differ from the

cited references. The Examiner was receptive to the proposals, and I understood the

Examiner to tentatively concur that the proposed claim amendments appeared to distinguish

over the cited references of record. For example, the Examiner indicated that clarification

regarding "generic class" under the context of object-oriented programming language

specification, when considered in view of the claim amendment, might distinguish over the

cited references. The Examiner requested that a formal response be presented in writing for

further consideration.

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[0007] Applicant herein amends the claims in the manner discussed during the

interview. Accordingly, Applicant submits that the pending claims are allowable over the

cited references of record for at least the reasons discussed during the interview.

Formal Request for an Interview

[0008] If the Examiner's reply to this communication is anything other than

allowance of all pending claims, then I formally request an interview with the Examiner.

I encourage the Examiner to call me—the undersigned representative for the Applicant—

so that we can talk about this matter so as to resolve any outstanding issues quickly and

efficiently over the phone.

[0009] Please contact me to schedule a date and time for a telephone interview that

is most convenient for both of us. While email works great for me, I welcome your call

as well. My contact information may be found on the last page of this response.

Claim Amendments

[0010] Without conceding the propriety of the rejections herein and in the interest of

expediting prosecution, Applicant amends claims 1, 2, 4, 8, 13, 18, 25, 31-36, 40, 46, 48,

50, and 51 herein. These amendments are fully supported by the Application and

therefore do not constitute new matter. Accordingly, entry to the file is respectfully

requested.

[0011] Applicant amends the claims to clarify claimed features. Such amendments

are made to expedite prosecution and more quickly identify allowable subject matter.

Such amendments are merely intended to clarify the claimed features, and should not be

construed as further limiting the claimed invention in response to the cited references.

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Formal Matters

[0012] This section addresses any formal matters (e.g., objections) raised by the

Examiner

Provisional Double-Patenting Rejections

[0013] Based upon co-pending application 10/657,468, the Examiner rejects

claims 1, 13 and 18 on the grounds of non-statutory obviousness-type double-patenting.

Applicant respectfully requests the objection be held in abeyance until either of the

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applications matures to a patent.

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Substantive Matters

Claim Rejections under § 103

[0014] Claims 1-9, 11-54 are rejected under 35 U.S.C. §103(a) for being

unpatentable over a variety of combinations of cited references including U.S. Patent

Application Publication 2005/0060695 to Hostetter et al. ("Hostetter"), an article "High-

performance parallel programming in Java exploiting native libraries" by Getov et al.

("Getov"), an article "Product Snapshot: J#, J# provides Java develops a key for entering

the .Net platform" by Johnthan Lurie("Lurie"), and "Diagnosing Java code: Java generics

without the pain" by Eric Allen ("Allen").

[0015] In light of the amendments presented herein and the decisions/agreements

reached during the above-discussed Examiner interview, Applicant submits that these

rejections are moot. Accordingly, Applicant asks the Examiner to withdraw these

rejections.

[0016] Independent claim 1, as amended, recites (Emphasis added):

1. A method of generating common intermediate language code for use

in a framework, the method comprising:

receiving a portion of JAVATM language source code *referencing*,

through a generic class syntax, one or more generic classes unspecified in

a formal JAVATM language specification, wherein:

each of the one or more generic classes refers to a first class

configured to operate uniformly on values of different types

associated with the first class and defined by a plurality of second

classes:

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the generic class syntax is not supported by the formal JAVATM language specification and identifies one of the plurality of second classes by surrounding the one of the plurality of second classes with angular brackets following the first class; and

. . .

generating, through a first compiler different from a formal compiler complying with the formal JAVATM language specification, language-neutral intermediate language code representing the portion of JAVATM language source code referencing the one or more generic classes.

[0017] It is known in the art that "Generic Classes" refer to a particular term in object-oriented programming language specification that, when implemented by one or more object-oriented programming languages, encapsulate operations not specific to a particular data type (i.e., classes, interfaces and methods that operate uniformly on values of different types such that adding and/or removing items from the generic classes are performed in almost the same way regardless of the type of data being stored). In order for a programming language to recognize and support generic classes, certain syntax is specified. For example, formal specification for C++ and other languages set forth generic class syntaxes that specify how generic classes are defined and declared.

[0018] However, at the time the instant invention was conceived, a formal specification for JAVATM language (known as JAVATM Development Kit (JDKTM) 1.1.4) did not specify generic classes (although the latest JDK implements similar feature called "generics"). For example, it's disclosed in the Application that "[f]ormal specifications for some languages, such as JAVATM language, do not specify generic classes. Thus, generic classes that may be provided in frameworks, or other software packages, are not

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readily accessible by developers of JAVATM language source code. For example, currently, JAVATM language source code cannot use a generic class that may be provided by the .NETTM Framework." (Specification at p.2, lines 11-16). "[A]s used herein, the term "JAVATM language" refers to any source code language that is based on a formal JAVATM language specification, such as, but not limited to, the JAVATM Development Kit (JDKTM) 1.1.4. Although formal JAVATM specifications do not specify generic classes..."

[0019] Claim 1 was rejected on the combination of Hostetter in view of Getov.

Applicant respectfully submits that these rejections are rendered moot in view of the claim

amendments. In particular, none of the cited references teach implementing a "generic

class" in JAVATM language and specifying syntax for generic classes in JAVATM language.

[0020] Hostetter is directed to a compiling method in JAVATM language, wherein

template-generated classes in program code are compiled through a process of lazy

compilation, thus improving the compilation time during execution. According to Hostetter,

with the template-generated classes, the unnecessary object code results are never invoked

during the execution. Hostetter further introduced lazy compilation, which delays

compilation of a referenced method until the class method is invoked by the execution of a

method call instruction.

(Specification at p.14, line 25 - p.15, line 4).

[0021] However, all the teachings in Hostetter for compiling source code are based

on JAVATM language specification effective at a time that predates the filing date of the

instant Application. As the Applicant elaborates above, during the time when the instant

invention was conceived, JAVATM language specification did not specify generic classes,

nor did it provide specific syntax for generic classes in JAVATM language. Therefore, since

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Hostetter provides a solution implemented in JAVATM language that was fully consistent

with the JAVATM language specification in effect at that time (i.e., JDK 1.1.4 or earlier)

without an intent to incorporate generic classes into the formal JAVATM language

specification, Hostetter does not teach, in JAVA language source code, a code portion

referencing one or more generic classes through a generic class syntax that is

unspecified in the formal JAVATM language specification in effect when the instant

invention was conceived. (Emphasis added).

[0022] Getov does not cure the deficiency of Hostetter. Getov describes how new

Java programs can capitalize on high-performance libraries implemented by other languages

(i.e., C or Fortran). By providing a prototype tool for automating the creation of portable

interfaces from JAVATM language to native libraries created for MPI, BLAS, ScaLAPACK,

etc, Getov concludes that an efficient numerical programming in JAVATM language utilizing

these native code libraries is feasible.

[0023] Getov is completely silent in implementing generic classes in JAVATM

language. Getov at best teaches creating JAVA binding for MPI, BLAS, ScaLAPACK, etc.

to be available for use by the JAVATM language under certain conditions.

[0024] Accordingly, the features including implementing a generic class and

providing generic class syntax in JAVATM language are absent in the combination of

Hostetter and Getov. Therefore, amended claim 1 is respectfully asserted patentable over

the cited references.

[0025] Similarly, since independent claims 13, 18, 25, 31, 36, 40, and 51 incorporate

at least the recited feature above, it's respectfully asserted that these claims are also

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patentable over the cited references for at least the reasons presented above with reference to claim 1.

Conclusion

[0026] All pending claims are in condition for allowance. Applicant respectfully requests reconsideration and prompt issuance of the application. If any issues remain that prevent issuance of this application, the **Examiner is urged to contact me before** issuing a subsequent Action. Please call/email me or my assistant at your convenience.

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Respectfully Submitted,

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